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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/676,116	10/02/2003	Seong Woon Kim	123056-05004412	6033	
43569 75	9 7590 03/21/2006		EXAMINER		
	OWN, ROWE & MAW	STIGLIC, RYAN M			
1909 K STREET, N.W. WASHINGTON, DC 20006			ART UNIT	PAPER NUMBER	
			2112		

DATE MAILED: 03/21/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application No.		Applicant(s)					
		10/676,116		KIM ET AL.					
		Examiner		Art Unit					
		Ryan M. Sti	glic	2112					
Period fo	The MAILING DATE of this communication app or Reply	pears on the d	over sheet with the	correspondence a	ddress				
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING Dansions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS 136(a). In no event will apply and will of applications.	S COMMUNICATIO t, however, may a reply be ti expire SIX (6) MONTHS from ation to become ABANDONI	N. imely filed in the mailing date of this (ED (35 U.S.C. § 133).	·				
Status									
1)⊠	Responsive to communication(s) filed on 24 Ja	anuary 2006							
	This action is FINAL. 2b) This action is non-final.								
<u> </u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
٠,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims	•							
4)⊠	☑ Claim(s) <u>1-9</u> is/are pending in the application.								
,	4a) Of the above claim(s) is/are withdrawn from consideration.								
	Claim(s) is/are allowed.								
·	Claim(s) 1-9 is/are rejected.								
_	Claim(s) is/are objected to.								
8) 🗌	Claim(s) are subject to restriction and/or election requirement.								
Applicati	on Papers								
9) 🗆	The specification is objected to by the Examine	er er							
<u> </u>		<u></u>	oted or b) ☐ objecte	d to by the Examii	ner.				
,	10)⊠ The drawing(s) filed on <u>02 October 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the correct		•	, ,	FR 1.121(d).				
11)	The oath or declaration is objected to by the Ex	xaminer. Not	e the attached Office	e Action or form P	TO-152.				
Priority ι	ınder 35 U.S.C. § 119								
•	Acknowledgment is made of a claim for foreign ☐ All b)☐ Some * c)☐ None of:	,		a)-(d) or (f).	·				
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority document		• •						
	3. Copies of the certified copies of the prio	•		ed in this Nationa	I Stage				
* 0	application from the International Bureau	•	` ` ` `	eo d					
	See the attached detailed Office action for a list	or the certific	a copies not receiv	eu.					
Attachmen	t(s)								
_	e of References Cited (PTO-892)	4	4) 🔲 Interview Summar	y (PTO-413)	,				
2) Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	_	Paper No(s)/Mail D	Date	·O 450\				
· —	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date		5) Notice of Informal 6) Other:	ratent Application (PT	U-132)				

DETAILED ACTION

- 1. Claims 1-9 are pending and have been examined.
- 2. Claims 1-9 are rejected.

Response to Arguments

3. Applicant's arguments filed January 24, 2006 have been fully considered but they are not persuasive. In response to applicant's arguments (page 5) that Phillbrick et al. does not teach constructing the data in the form of a packet, paragraph [0089] discloses a situation where a client device (connected to the network) request information from a peripheral memory of the server. The INIC of Phillbrick gathers the requested information and then sends the data to the client in packetized form with prepended headers.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 5. Claims 1-9 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claim 1 states that the TOE constructs "data in the form of a packet including the creation of a packet header" however the specification does not support this limitation. The

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specification merely states data is "transferred in the form of packets with various information required for network transmission (page 12, paragraph [0060])." Nowhere in the specification is there any mention of the data packet explicitly containing a header.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the 6. basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 7. Claims 1-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Phillbrick et al. (US20010037406A1).

For claim 1, Phillbrick discloses:

A network-storage apparatus (Fig. 1, 'INIC' 22; paragraph [0042]) for high-speed streaming data transmission through a network, the network-storage apparatus processing the streaming data for a plurality of disc storages of an Internet server computer system and a network apparatus, the apparatus comprising:

an internal peripheral device bus separated from a peripheral device bus outside the network-storage apparatus, for transmitting data between devices inside the networkstorage apparatus (Fig. 1, 48; [0043]);

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- a peripheral device bus bridge for transferring bus transaction from a host processor to the internal peripheral device bus and transferring bus transaction for a host processor executing inside the network-storage apparatus or a main memory to a bus bridge (Fig. 1, 50; [0043]);
- a disk controller for controlling a plurality of disc storage connected to the network-storage apparatus and managing reading and writing data from and to the disc storage (Fig. 1, 72; [0045]);
- a peripheral memory for storing transmitted data between the disc storage and the network (Fig. 1, 46; [0043]);
- a peripheral memory controller for controlling the peripheral memory and storing or outputting the transmitted data between the disc storage and the network ([0053]; and
- a TOE for reading data to be transmitted to the network from the peripheral memory, constructing the data in the form of a packet including the creation of a packet header ([0089] discloses a situation where a client on the network requests data stored in a peripheral memory of the server and the INIC gathers the information and sends the data packets to the client with prepended headers "it created based on the server CCB"), transmitting the packet to the network, and storing the data received from the network in the peripheral memory through the peripheral memory controller (Fig. 1, items 52,58,60; [0043-0062]).

For claim 2, Phillbrick discloses:

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The apparatus of claim 1, wherein the peripheral device bus is a PCI bus and the peripheral device bus bridge roles a PCI bridge ([0066]).

For claim 3, Phillbrick discloses:

The apparatus of claim 1, wherein the disk controller is connected to a plurality of disc storages in parallel through a disk interface bus and accesses to the data in a pipeline manner ([0111-0113]).

For claim 4, Phillbrick discloses:

The apparatus of claim 1, wherein the disk controller reads and writes data from and to a plurality of disc storages in a stripping manner ([0044-0045] Where stripping is a form of RAID clearly covered by the scope of the word RAID).

For claim 5, Phillbrick discloses:

The apparatus of claim 1, wherein the peripheral memory controller constructs a memory table so as to cache data transmitted from and to the network ([0045-0046,0055,0059-0060,0110] etc.).

For claim 6, Phillbrick discloses:

The apparatus of claim 1, wherein the peripheral memory controller is provided a register for indicating size of the peripheral memory inside the peripheral memory controller, and transmits a great deal of data in a DMA manner ([0110,0052-0053]).

For claim 7, Phillbrick discloses:

The apparatus of claim 1, wherein the peripheral memory controller deletes contents of a

memory table thereof when finishing accessing to the peripheral memory ([0045-

0046,0055,0059-0060,0110]).

For claim 8, Phillbrick discloses:

The apparatus of claim 1, wherein the TOE creates a DSB table having information on packet

data to be transferred to the disk immediately among data packets received from the network,

transmitting a data packet to the peripheral memory to store the data packet if the data packet

storable in the disk has information matching DSB, and transmitting a data packet to a general

network stack otherwise ([0043-0062]).

For claim 9, Phillbrick discloses:

The apparatus of claim 1, wherein the TOE reads data to be transmitted to the network from the

peripheral memory, constructs the data in the form of a packet and transfers the data packet to

the network when the data to be transmitted is stored in the peripheral memory and the TOE

receives a data transmission instruction from a host processor ([0043-0062]).

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Conclusion

8. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ryan M. Stiglic whose telephone number is 571.272.3641. The examiner can normally be reached on Monday - Friday (6:00-3:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rehana Perveen can be reached on 571.272.3676. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RMS

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PRIMARY EXAMINER

Paul R. Myss

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